

CLAIMS SET AS AMENDED

1. (Currently Amended) A fan for cooling an electronic device, comprising:

a plurality of blades rotatably supported by an axis;  
an outlet; and

an inlet having a non-circular circumference shape ~~shape~~  
~~started~~ starting from a first reference point thereof with  
respect to the outlet,

~~wherein the blades are partially covered by the inlet  
from the reference point, and an area of the blades covered  
by the inlet is from a maximum to a minimum gradually in a  
closed loop, thereby increasing a heat dissipation  
capability of the fan~~ the inlet partially covering the  
blades, the inlet being in a plane and being non-symmetrical  
with respect to any axis lying in the plane.

2. (Original) The fan of claim 1, wherein the fan is a centrifugal fan.

3. (Currently Amended) The fan of claim 1, further comprising a housing ~~form~~ for mounting the blades therein wherein the housing comprises ~~an~~ the inlet being located on

the top and the bottom surface thereof and ~~an~~ the outlet being located at a side.

4. (Currently Amended) The fan of claim ~~2~~ 3, wherein the inlet is concentric with respect to the housing.

5. (Currently Amended) The fan of claim ~~2~~ 3, wherein the inlet is eccentric with respect to the housing.

6. (Original) The fan of claim 1, wherein the inlet has a volute shape.

7. (Original) The fan of claim 1, wherein the blades have the same shape and the blades are equally spaced around the axis.

8. (Original) The fan of claim 1, wherein an area of the blades covered by the inlet is calculated from outside of the blades to the axis of the blades.

9. (New) The fan of claim 1, wherein the non-circular circumference is a spiral circumference with a first varying radius and a second varying radius with respect to the axis, the first varying radius continuously increasing when

measured from the first reference point in a first direction to a second reference point, the second varying radius continuously increasing when measured from the first reference point in a second direction to the second reference point, the first direction being one of clockwise and counterclockwise, the second direction being opposite to the first direction, the first varying radius increasing more slowly than the second varying radius.

10. (New) The fan of claim 9, wherein the inlet maximally covers the blades at the first reference point and minimally covers the blades at the second reference point, the coverage of the blades by the inlet continuously decreasing from the first reference point to the second reference point.

11. (New) The fan of claim 1, wherein the inlet maximally covers the blades at the first reference point and minimally covers the blades at a second reference point, the coverage of the blades by the inlet continuously decreasing from the first reference point to the second reference point in both a first direction and a second direction, the first

direction being one of clockwise and counterclockwise, the second direction being opposite to the first direction.

12. (New) A fan for cooling an electronic device, comprising:

a plurality of blades rotatably supported by an axis;  
an outlet; and

an inlet having a circumference starting from a first reference point thereof with respect to the outlet, the inlet minimally covering maximally the blades at the first reference point and minimally covering the blades at a second reference point, the coverage of the blades by the inlet continuously decreasing from the first reference point to the second reference point in both a first direction and a second direction, the first direction being one of clockwise and counterclockwise, the second direction being opposite to the first direction.

13. (New) The fan of claim 12, wherein the fan is a centrifugal fan and wherein the inlet is one of concentric and eccentric with respect to the housing.

14. (New) The fan of claim 12, wherein the inlet has a volute shape.

15. (New) The fan of claim 12, wherein the blades have the same shape and the blades are equally spaced around the axis.

16. (New) A fan for cooling an electronic device, comprising:

a plurality of blades rotatably supported by an axis;  
an outlet; and

an inlet having a spiral circumference starting from a first reference point thereof with respect to the outlet, the spiral circumference having a first varying radius and a second varying radius with respect to the axis, the first varying radius continuously increasing when measured from the first reference point in a first direction to a second reference point, the second varying radius continuously increasing when measured from the first reference point in a second direction to the second reference point, the first direction being one of clockwise and counterclockwise, the second direction being opposite to the first direction, the first varying radius increasing more slowly than the second varying radius.

17. (New) The fan of claim 16, wherein the inlet maximally covers the blades at the first reference point and minimally covers the blades at the second reference point, the coverage of the blades by the inlet continuously decreasing from the first reference point to the second reference point.

18. (New) The fan of claim 16, wherein the fan is a centrifugal fan and wherein the inlet is one of concentric and eccentric with respect to the housing.

19. (New) The fan of claim 16, wherein the inlet has a volute shape.

20. (New) The fan of claim 16, wherein the blades have the same shape and the blades are equally spaced around the axis.